

Supercharge Your Fiber with CWDM!

WBM-21

20 Gbps and 8 protocol independent channels over a single fiber pair.

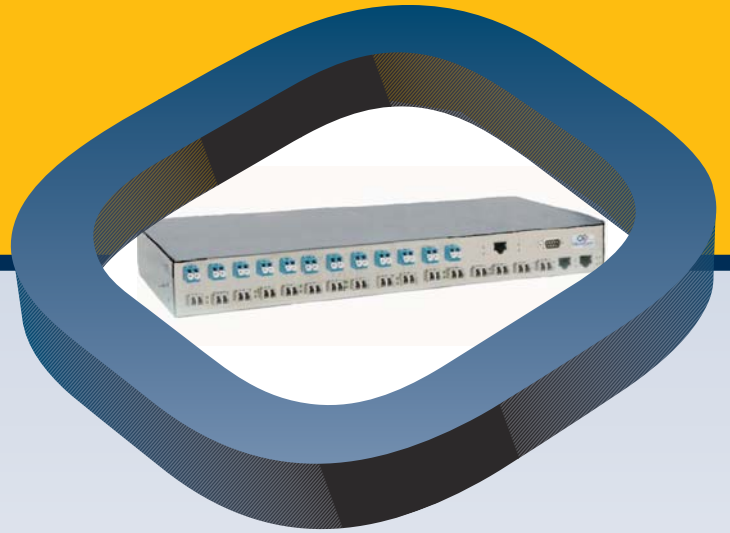
Description

WBM-21 is a Coarse Wavelength Division Multiplexing (CWDM) system that delivers up to 8 channels and 20Cbit/s over a single fiber pair. It makes in stand-alone case and can be mount to standard 19-inch rack.

The transparent fiber-in fiber-out interfaces support all protocols between the range of 30Mbps and 2.5Gbps, including OC-3/STM-1, OC-12/STM-4, and OC-48/STM-16, Gigabit Ethernet SX, Gigabit Ethernet LX, Fast Ethernet, FDDI, ATM, ESCON, FICON, Fibre Channel, Coupling Link or any proprietary protocol operating within the specified data range.

Applications

ENTERPRISE CUSTOMERS use WBM-21 to expand the reach and versatility of their diverse network applications to transport multiple formats of video, data, and voice between premises. SERVICE PROVIDERS use WBM-21 to terminate SONET/SDH applications in their metropolitan network while simultaneously adding new revenue opportunities for high-speed LAN and SAN services with no extra infrastructure.



Benefits

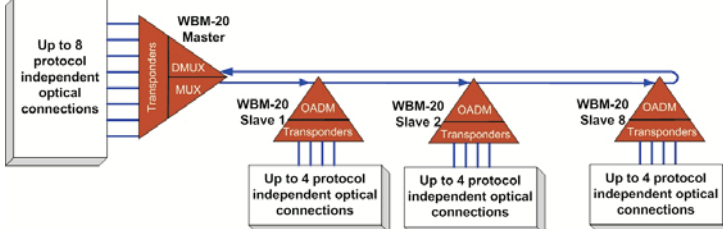
- ✓ Cost Effective - Avoid infrastructure or leased line costs
- ✓ Flexible - Multiplexes multiple protocols
- ✓ Versatile - Device enable flexible configuration for customer needs.
- ✓ Scalable - SFP transceivers can be added as needed up to 8 channels
- ✓ Reliable - Dual power supply, optional 1+1 protection for line interface, SNMP Management

Topologies

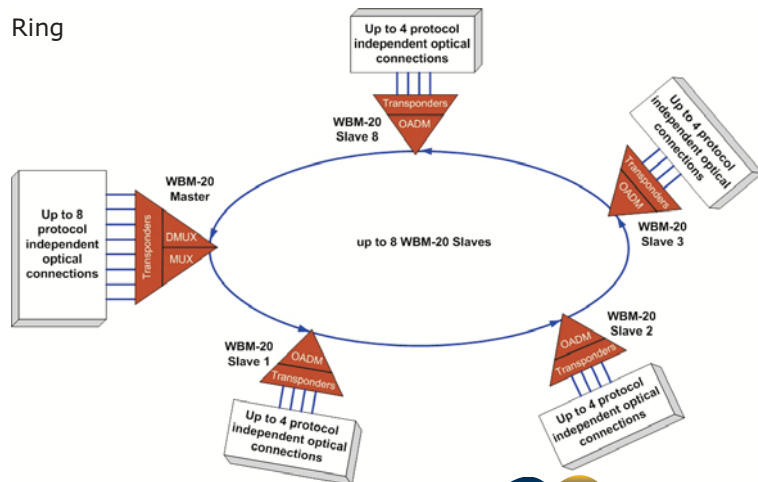
Point-to-Point



Linear Add/Drop



Ring

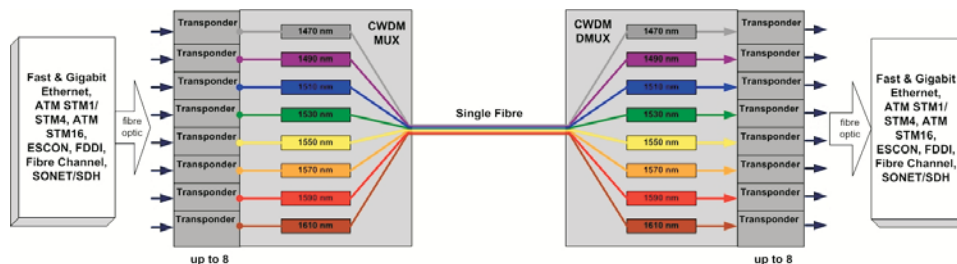




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Method of operation



Specifications

CWDM optical interface

Aggregate data rate	20 Gbps
Channel data rate	1.25 Gbps / 2.5 Gbps
Operational distance, max	20 – 120 km depend of SFP transceivers
Wavelength	1470nm / 1490nm / 1510nm / 1530nm / 1550nm / 1570nm / 1590nm / 1610nm
Output power of SFP transceivers	-5 dBm ... 5 dBm depend
Receive sensitivity SFP transceivers	up to -36 dBm depend of
Connector type	LC
Fiber Type	single mode

Customer optical interface

Data rate on each channel	up to 2.5 Gbps
<i>Multi-mode fiber</i>	
Operational distance	0.5 km
Wavelength	850 nm
Output power	-9.5 dBm ... -4 dBm
Receive sensitivity	-17 dBm
<i>Single-mode fiber</i>	
Operational distance	15 km / 60 km

Wavelength	1310 nm / 1550 nm
Output power	-10 dBm ... -3 dBm
Receive sensitivity	-20 dBm / -23 dBm
Connector type	LC

MUX / OADM parameters

Maximum insertion loss	<4dB
Adjacent channel isolation	>40 dB
Connector type	FC/PC

Dual power supply

AC power redundancy	90 - 264VAC; 100W; full
DC power redundancy	36 - 72VDC; 100W; full

Operating Environment

Operating temperature	+0°C to +45°C
Storage temperature	-40°C to +80°C
Relative humidity	10% to 90% (non-condensing)

Mechanical

Dimensions (W x D x H)	440mm x 280mm x 65mm
Weight	5 kg

